

Extensions to PCEP for Backup

Ingress and Egress of LSP

draft-chen-pce-compute-backup-ingress
draft-chen-pce-compute-backup-egress

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draft-chen-pce-compute-backup-ingress

- -03 just posted, looks solid
- One major change needs review:
External Source Node Representation
 - ◆ Option 1: New External Source Node (ESN) Object
ESN Object Body (IPv4)

External source node IPv4 address (4 bytes)

- ◆ **Option 2:** Existing END-POINTS with new type

Type (11)

External source node IPv4 address (4 bytes)

draft-chen-pce-compute-backup-egress

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- One major change needs review:

External Destination Node (EDN) Representation

◆ Option 1: EDN Object

EDN Object Body (IPv4)

Encode of External Destination Nodes (2)
Egress IPv4 address
External Destination IPv4 address
Egress IPv4 address
External Destination IPv4 address
.....
Egress IPv4 address
External Destination IPv4 address

◆ Option 2: END-POINTS

END-POINTS Object Body

External Destination Nodes Type (13)
Egress IPv4 address
External Destination IPv4 address
Egress IPv4 address
External Destination IPv4 address
.....
Egress IPv4 address
External Destination IPv4 address

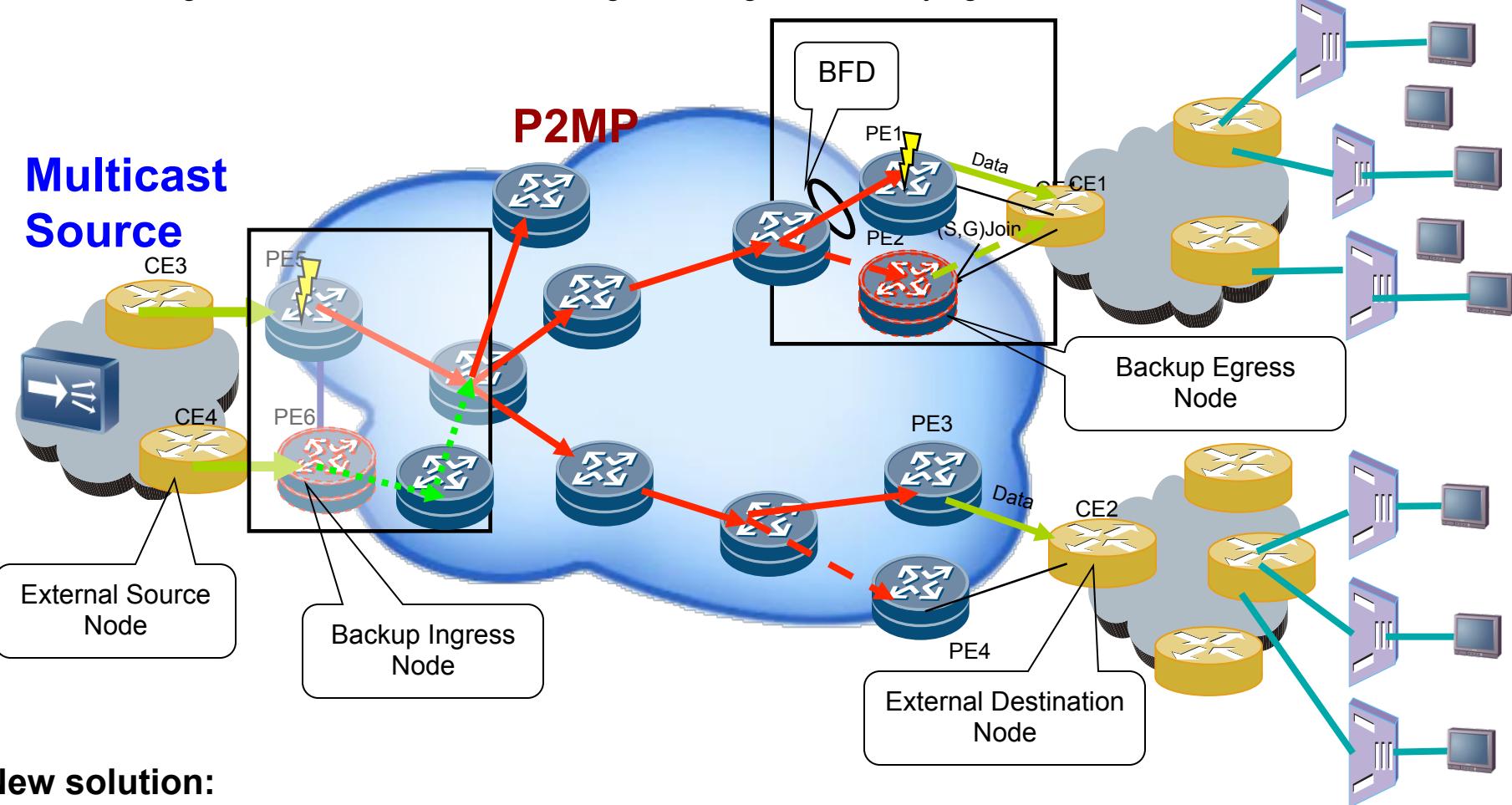
Next Step

- Welcome comments
- Request to make it into a working group document

P2MP LSP Ingress & Egress Local Protection

Existing solution: double ingress and every egress

Create two global P2MP LSP from each ingress to egresses, carrying data at same time



New solution:

One P2MP LSP for all: Every part locally protected

Big resource saving, Faster failure recovery

→ P2MP LSP

→ Backup LSP